

BBC Biochemical

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Information

Common Name: ImmunoFix F.S.™ for Frozen Sections	Code: 2050
Supplier: BBC Biochemical	MSDS#: 2050
Synonym:	Validation Date: 2-20-09
Trade Name: ImmunoFix F.S. for Frozen Sections	Print Date: 2-20-09
Material Uses: Tissue fixative	Responsible Name: Dr. Biesecker
Manufacturer: BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477	In Case of Emergency: 1-800-424-9300 Chemtrec USA 1-202-483-7616 Chemtrec Intrl 1-800-635-4477

Section 2. Composition and Information on Ingredients

Name	CAS#	% by Weight	OSHA PEL/TWA	OSHA PEL/STEL
5) Water	Not Available	<5%	Not Available	Not Available
6) Acetone	67-64-1	<82%	Not Available	Not Available
7) Selected Glycols	Not Available	<1%	Not Available	Not Available

Section 3. Hazards Identification

Physical State and Appearance	Clear, colorless liquid.
Emergency Overview	Not available.
Routes of Entry	Not available.
Potential Acute Health Effects	<p>Eyes Severe eye irritant</p> <p>Skin Prolonged contact causes irritation</p> <p>Inhalation Chronic overexposure can cause damage to gastrointestinal tract, liver, kidneys, and cardiovascular system</p> <p>Ingestion If swallowed in quantity, can be fatal or cause blindness. Causes headache, nausea, dizziness, narcosis</p>
Potential Chronic Health Effects	Not Available.
Medical Conditions Aggravated by Overexposure	Kidney, liver, heart and G.I. conditions
Overexposure/Signs/Symptoms	Not Available.

Section 4. First Aid Measures

Eye Contact	Immediately flush thoroughly with water for at least 15 minutes
Skin Contact	Wash area thoroughly with copious amounts of water. Remove contaminated clothing and clean before wearing again.
Inhalation	Remove to fresh air; give artificial respiration if breathing has stopped
Ingestion	If conscious, drink water. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	Flammable.
Auto-ignition Temperature	Not available.
Flash Points	-17°C
Flammable Limits	Not available.

Products of Combustion	Not available.
Fire Hazards in Presence Of Various Substances	Not available.
Explosion Hazards in Presence of Various Substances	Not available.
Fire Fighting Media and Instructions	Dry chemical, carbon dioxide, "Alcohol" foam, water spray to cool fire-exposed containers and disperse vapors.
Protective Clothing (Fire)	Wear self-contained breathing apparatus and protective clothing.
Special Remarks on Fire Hazards	Vapor can travel distances to ignition source and flash back.
Special Remarks on Explosion Hazards	Vapor can travel distances to ignition source and flash back.

Section 6. Accidental Release Measures

Small Spill and Leak	Evacuate area of all unnecessary personnel. Provide ventilation. Contain spill (dilution with water will raise the flash point). Wear suitable protective equipment against inhalation and liquid contact. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards.
Large Spill and Leak	Evacuate area of all unnecessary personnel. Provide ventilation. Contain spill (dilution with water will raise the flash point). Wear suitable protective equipment against inhalation and liquid contact. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards.

Section 7, Handling and Storage

Handling	Don't breath vapors. Don't get in eyes and avoid skin contact.
Storage	Keep container closed, store in cool area away from ignition sources and oxidizers.

Section 8. Exposure Controls / Personal Protection

Engineering Controls	
Personal Protection	
Eyes	Chemical safety goggles
Body	Protective clothing to minimize skin contact
Respiratory	Air-supplied mask in confined areas. Use only NIOSH or MSHA approved equipment.
Hands	Nitrile, latex, or equivalent
Feet	
Personal Protection in Case of a Large Spill	
Product Name	Exposure Limits
1)	
2)	
3)	
Consult Local authorities before acceptable exposure limits.	

Section 9. Physical and Chemical Properties

Physical State and Appearance	Clear, colorless liquid with vinous odor.	Odor: Vinous
Molecular Weight	Not applicable.	Taste: Not available.
Molecular Formula	Not applicable.	Color: Clear
pH (1%/Water)	Not applicable.	
Boiling/Condensation Point	(C 760 mmHg) 79.4°C	
Melting/Freezing Point	Not applicable.	
Critical Temperature	Not applicable.	
Specific Gravity	(H ₂ O = 1) 0.81	
Vapor Pressure	(mm Hg) 40 19°C	
Vapor Density	(Air = 1) 1.59	
Volatility	100%	
Odor Threshold	Not applicable.	
Evaporation Rate	(BuOAc = 1) 1.4	
VOC	Not available.	
Viscosity	Not available.	
Ionicity (in water)	Not available.	
Dispersion Properties	Not available.	
Solubility	Miscible in water	
Physical Chemical Comments	Not available.	

Section 10. Stability and Reactivity

Stability and Reactivity	Stable
Conditions of Instability	Heat, sparks, open flame
Incompatibility with Various Substances	Oxidizers, concentrated nitric and sulfuric acids, aldehydes, halogens
Hazardous Decomposition Products	CO _x
Hazardous Polymerization	Does not occur

Section 11. Toxicological Information

Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	
Other Toxic Effects on Humans	
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Not available.

Section 12. Ecological Information

Ecotoxicity	Not available.
BODS and COD	Not available.
Biodegradable/OEDC	Not available.
Mobility	Not available.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on The Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Information	Not available.
Waste Stream	Not available.
Consult your local or regional authorities.	

Section 14. Transport Information

DOT Classification	Flammable liquid, UN1090, Acetone, 3, II
Marine Pollutant	Not available.
Hazardous Substances Reportable Quantity	Not available.
Special Provisions for Transport	Not applicable.
TDG Classification	Flammable liquid, UN1090, Acetone, 3, II
ADR/RID Classification	ADR (Europe) Information not available.
IMO/IMDG Classification	IMDG Information not available.
ICAO/IATA Classification	See IATA Regulations Flammable liquid, UN1090, Acetone, 3, II

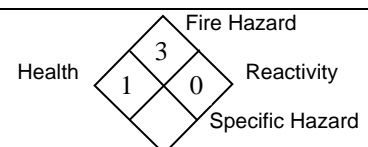
Section 15. Other Information

Label requirements

Hazardous Material Information System (U.S.A.)

Health	1
Fire Hazard	3
Reactivity	0
Personal Protection	

National Fire Protection Association (U.S.A.)



References

Other Special Considerations

Wash thoroughly after handling. Do not take internally. Have eye wash and safety equipment readily available.

Notice to Reader

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